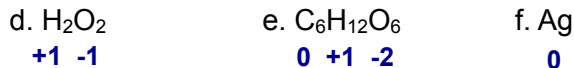
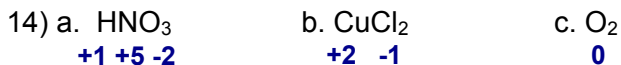


Assignment 17.1

Questions 14 a-f, 15, 17, 25-29a odd, 31

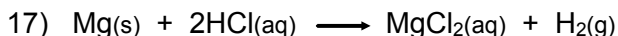


15) a. Carbon is oxidized (from -4 to +2)
 Hydrogen is reduced (from +1 to 0)

 b. Cu is oxidized (from 0 to +2)
 Ag is reduced (from +1 to 0)

 c. Zinc is oxidized (from 0 to +2)
 Hydrogen is reduced (from +1 to 0)

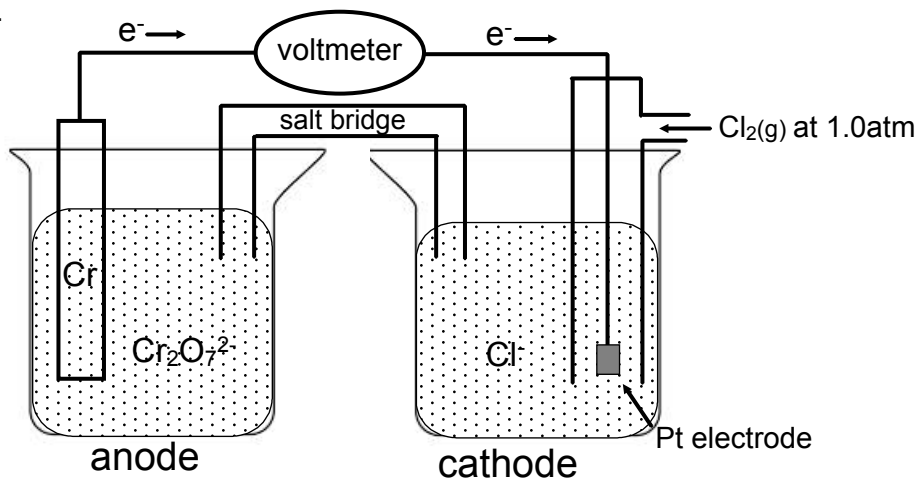
 d. No, all of the elements keep the same oxidation number



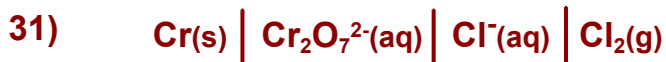
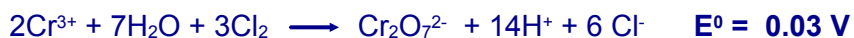
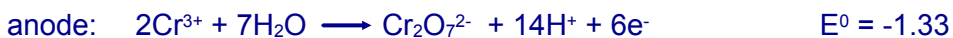
2 electrons are transferred from Mg to the hydrogen ions.

No useful work can be obtained because they transfer the electrons directly. By connecting them with a galvanic cell, the transfer of electrons will create voltage due to the potential difference.

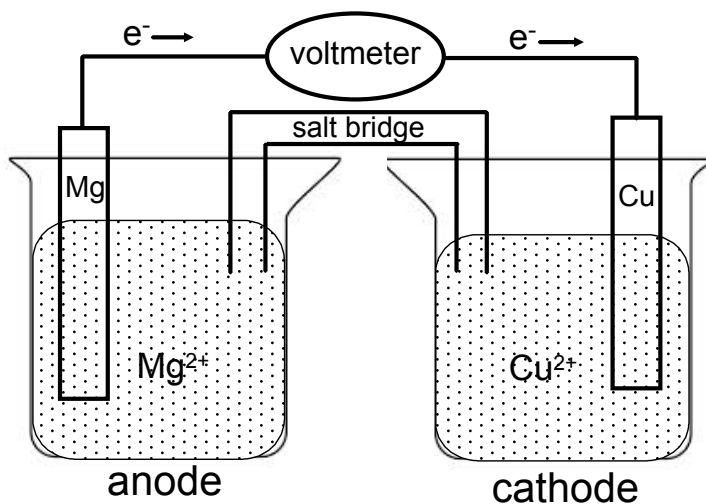
25) a.



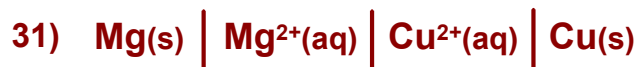
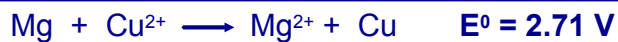
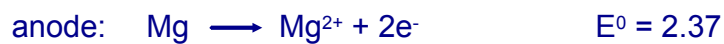
27)



25) b.



27)



29 a.

